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FIG.1

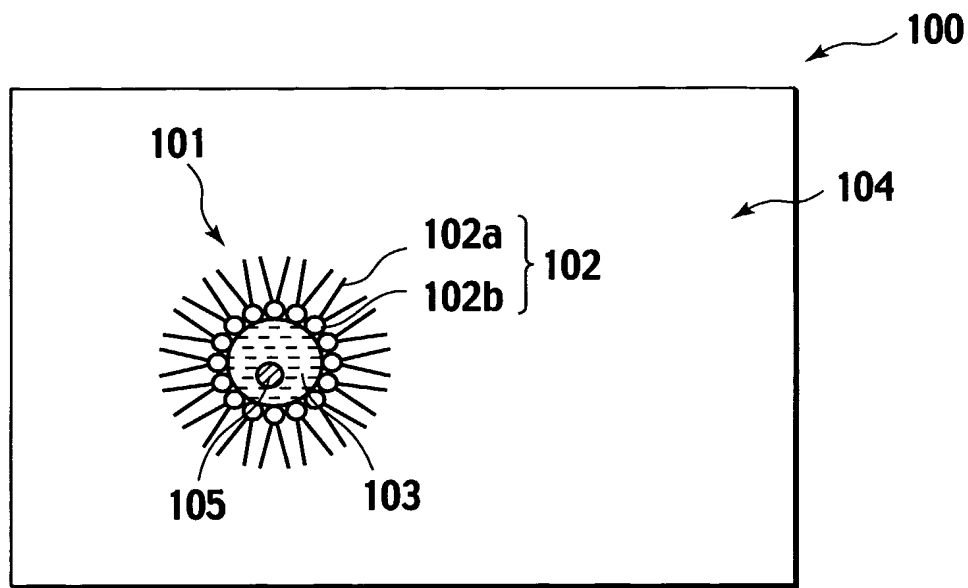
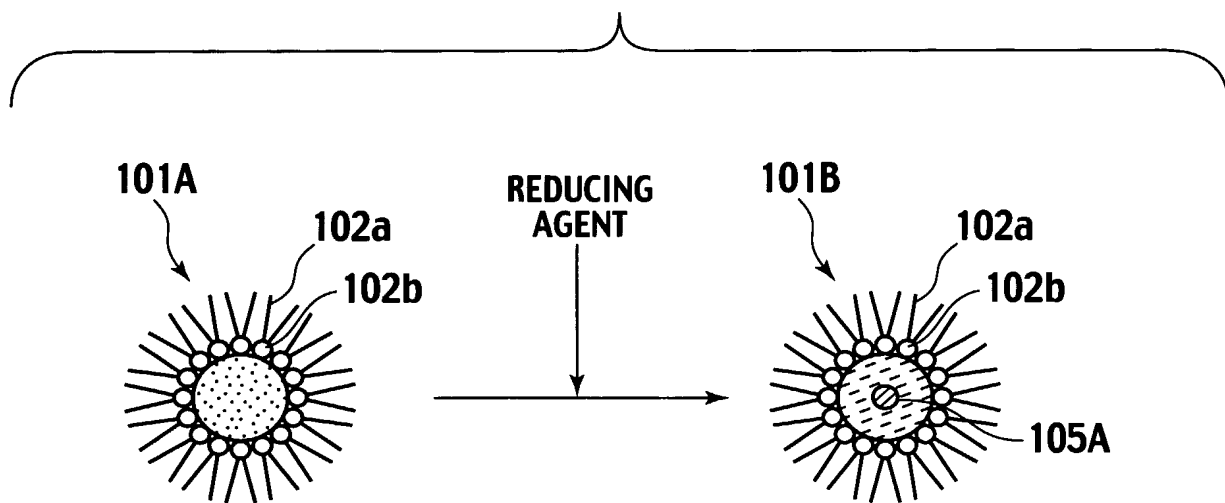
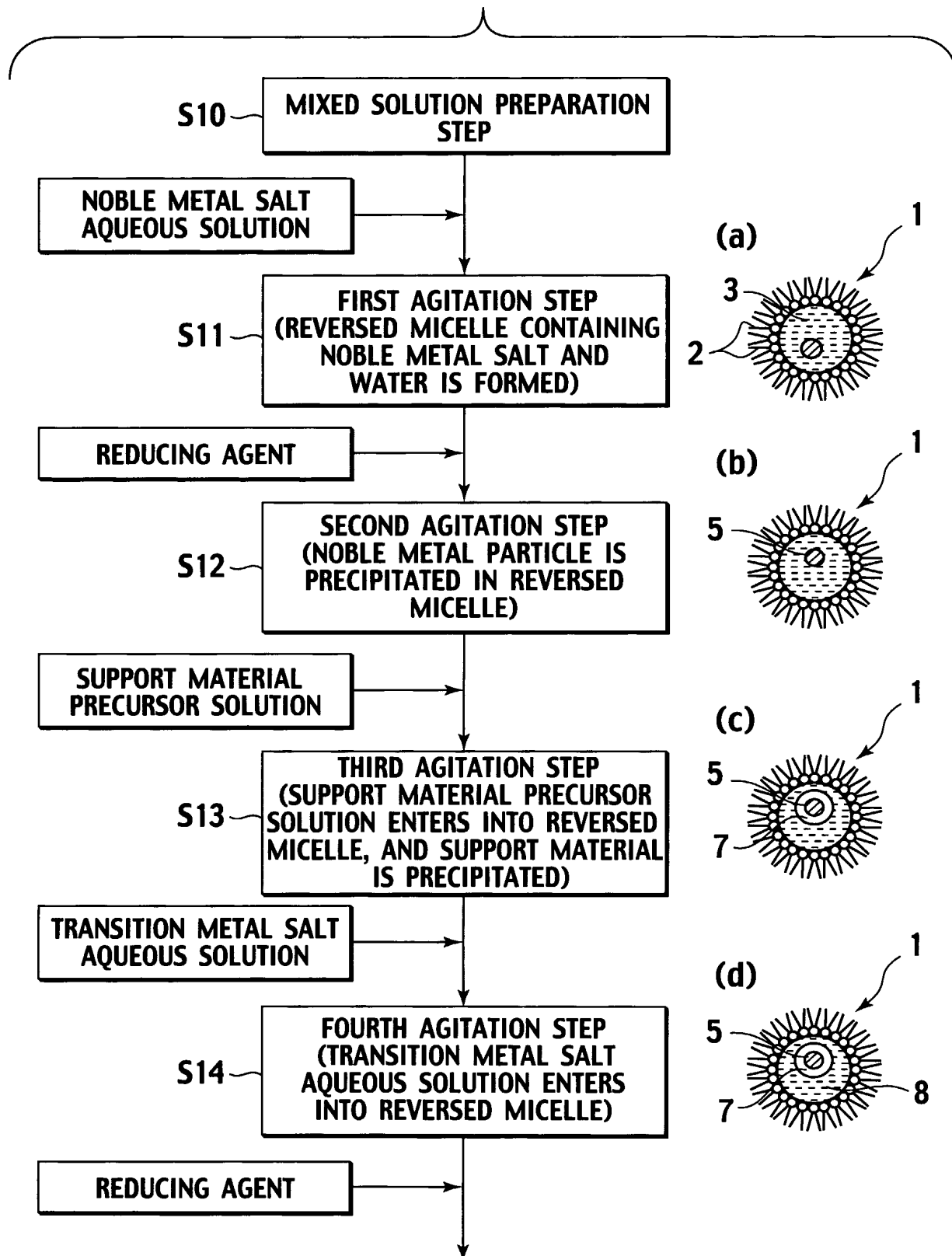


FIG.2



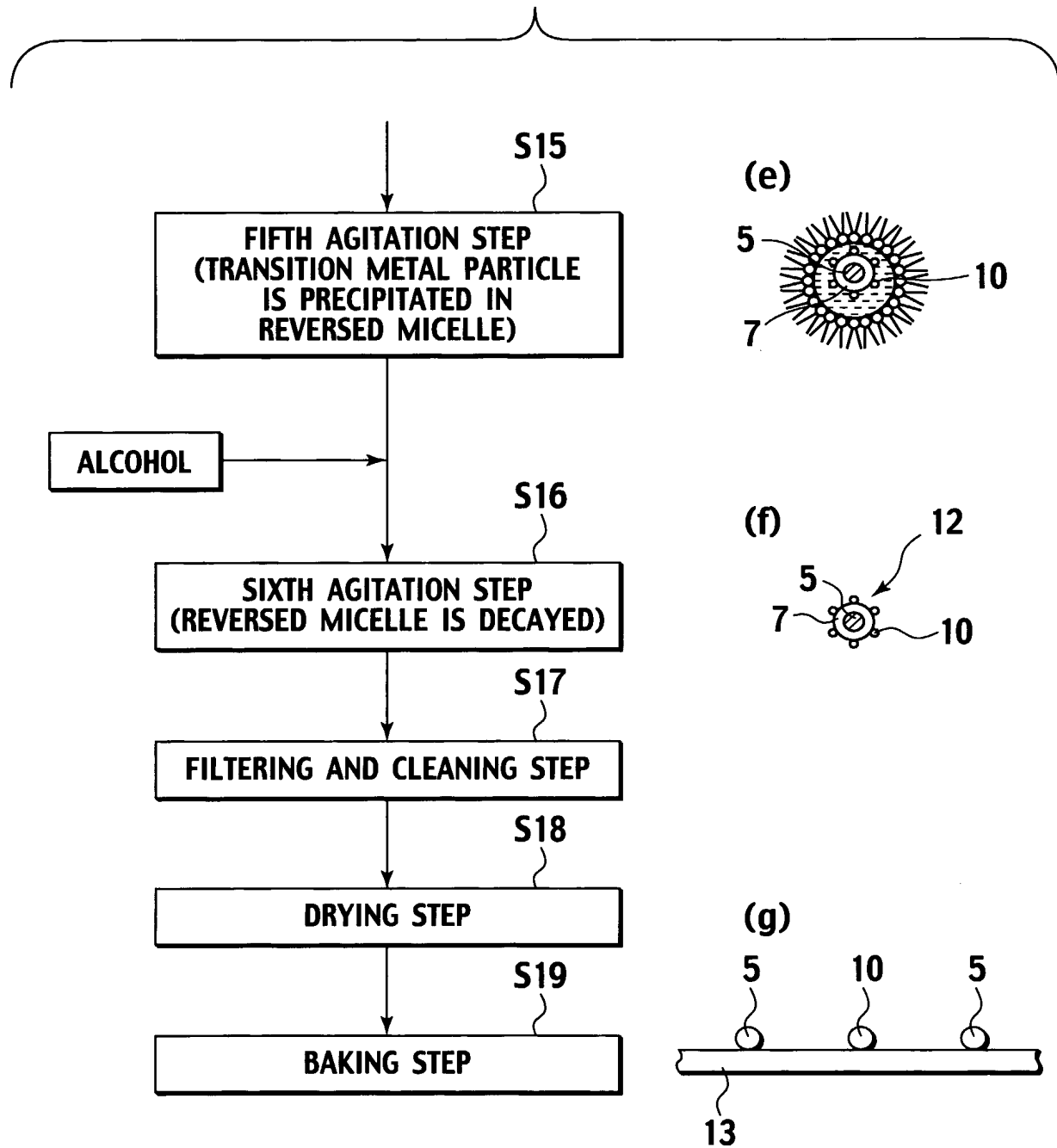
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FIG.3A



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FIG.3B



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FIG.4

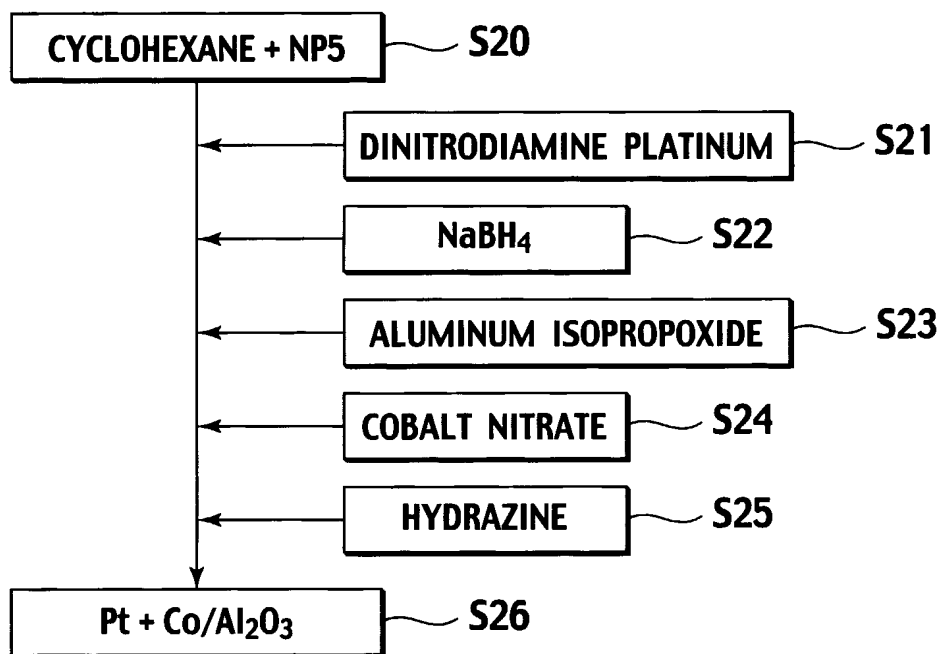
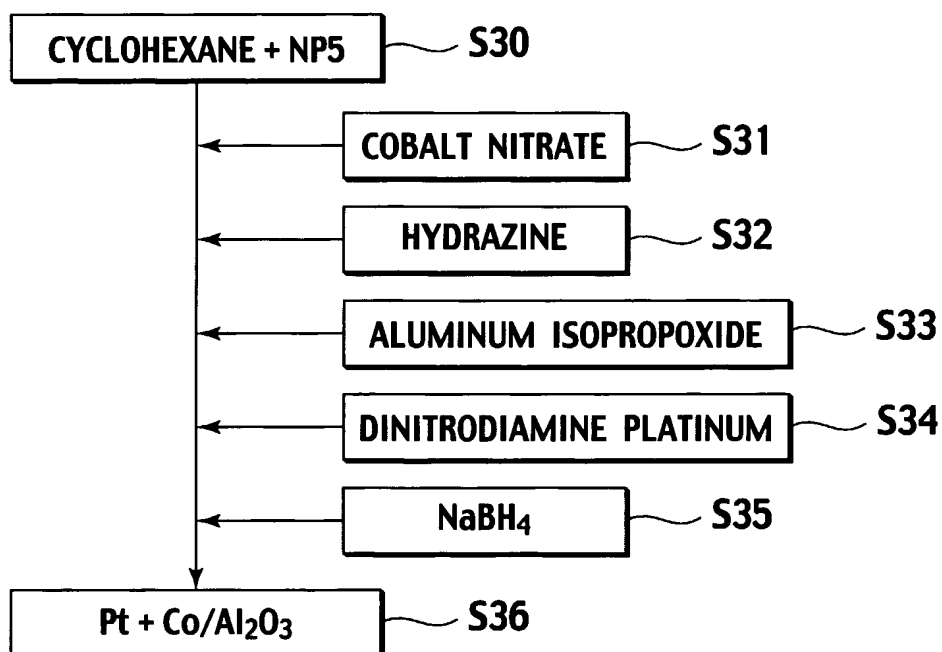


FIG.5



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FIG.6

| | STRUCTURE | NOBLE METAL | | TRANSITION METAL | | ADDED ELEMENT IN SUBSEQUENT STEP | PRECURSOR OF POROUS OXIDE | COATING AMOUNT ON HONEYCOMB SUBSTRATE (g/L) | 50% DEGREE-OF-CONVERSION TEMPERATURE AFTER DURABILITY TEST OF 700°Cx30 Hrs. | | |
|-----------------------|-------------|-------------|-----------------------------|------------------|-----------------------------|----------------------------------|---------------------------|---|---|-----|-----|
| | | TYPE | SUPPORTED CONCENTRATION (%) | TYPE | SUPPORTED CONCENTRATION (%) | | | | HC | CO | NOx |
| EXAMPLE 1 | A/C/B | Pt | 1.00 | Co | 5.0 | - | ALUMINUM ISOPROPOXIDE | 100 | 279 | 222 | 261 |
| EXAMPLE 2 | B/C/A | Pt | 1.00 | Co | 5.0 | - | ALUMINUM ISOPROPOXIDE | 100 | 282 | 216 | 265 |
| EXAMPLE 3 | A/C/B | Pt | 1.00 | Fe | 5.0 | - | ALUMINUM ISOPROPOXIDE | 100 | 291 | 226 | 271 |
| EXAMPLE 4 | B/C/A | Pt | 1.00 | Fe | 5.0 | - | ALUMINUM ISOPROPOXIDE | 100 | 299 | 230 | 275 |
| EXAMPLE 5 | A/C/B | Pt | 1.00 | Co | 5.0 | Ce | ALUMINUM ISOPROPOXIDE | 100 | 272 | 209 | 256 |
| EXAMPLE 6 | B/C/A | Pt | 1.00 | Co | 5.0 | Ce | ALUMINUM ISOPROPOXIDE | 100 | 277 | 203 | 259 |
| COMPARATIVE EXAMPLE 1 | IMPREGNATED | Pt | 3.00 | Co | 5.0 | - | ALUMINUM OXIDE | 100 | 297 | 257 | 284 |
| COMPARATIVE EXAMPLE 2 | IMPREGNATED | Pt | 3.00 | Fe | 5.0 | - | ALUMINUM OXIDE | 100 | 315 | 261 | 288 |
| COMPARATIVE EXAMPLE 3 | IMPREGNATED | Pt | 3.00 | Co | 5.0 | Ce | ALUMINUM OXIDE | 100 | 292 | 243 | 267 |